SBR No. 11H/18-19
DATED 25-3-19

No.

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No. 150/18-19

Date.....2010 Dt. 25-3-19

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional / Sub Divisional

Cash Book Voucher No..... Dated.....

Job Code :-007-17-000042

P-2178 Dy Mayor

Schedule Docket No. Head of Account : D.R.No.

Name of Work. Sub Estimate for Providing Electrification and Fixtures to Shadimahal Jakkur Layout in Ward No 7

Name of Contractor and Full Address Sri B.M. Muniraju

Reference to Agreement No: EE/Ele/YZ/RWO/000044/2018-19 Date:- 26- 12 -2018

Certified that the measurements were taken by me on 08/3/19 and recorded of Pages 311792 to 799 of measurement Book No. 3118/17-18 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 8/3/19 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele) / Sub-Division Officer

II Memorandum of Payment

BBMP, Bangalore

1)	Total value of work done or supplies made as per account within	Bill= 3,45000/-
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 3450=00
3)	" Balance	Scast 1% 3080=00
4)	Deduct Payment:	Cesst 1% Amount 3080=00
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	LWC 1% = 3450=00
		CBFO.1% = 345=00
		FSD 5% = 17250=00
b)	Payments Now made: cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	deductions = 30655=00
5)	Balance being unpaid value of work done held in reserve.	cheque = 314345=00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....Initials of Officer making payme

Stamp

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P2178. Hon D. mayor.

ರೂ: 3,45000/- ಡೆಬಿಟ್ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 314345=00 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ

ರೂ: 30655=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

ಕಾ.ಮಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl no	Description of item	Unit
	Name of the Work:- Sub Estimate for Providing Electrification and Fixtures to Shadimahal Jakkur Layout in Ward No 07.	
1	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick	Mtrs
2	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick	Mtrs
3	Supplying And Fixing Metal Fan Box with Round Hook.	No
4	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3Way	Nos
5	6 Way	Nos
6	8 Way	Nos
7	10-12 Way	Nos
8	16Way	Each
9	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1 to 3 Module	Nos
10	6 Module	Nos
11	8 Module	Nos
12	12 to16 Module	Nos
13	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 6Amps one way switch.	Nos
14	6Amps 3way socket.	Nos
15	Stepped Fan Regulator.	Nos
16	16Amps one way switch	Nos
17	6/16Amps universal socket	Nos
18	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps.	Nos
19	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B.1.5 sqmm	Mtrs
20	2.5 sqmm	Mtr.
21	4 sqmm	Mtr.
22	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size .....mm conduit using necessary machine screws.80mm	Nos
23	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet.GROUP BShort point upto 3Mtr from tapping point to out let via switch box	Points
24	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point
25	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point
26	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door 08Way SP &N	Nos
27	12Way SP &N	Nos
28	40-63Amps TPN	Nos
29	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP	Nos
30	5-32 Amps DP	

Previous		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost	
		246	57.00	14022.00	246	14022.00	
		148	58.00	8584.00	148	8584.00	
		25	92.00	2300.00	25	2300.00	
		6	91.00	546.00	6	546.00	
		3	121.00	363.00	3	363.00	
		3	140.00	420.00	3	420.00	
		3	159.00	477.00	3	477.00	
		8	172.00	1376.00	8	1376.00	
		6	109.00	654.00	6	654.00	
		3	173.00	519.00	3	519.00	
		3	200.00	600.00	3	600.00	
		11	267.00	2937.00	11	2937.00	
		63	63.00	3969.00	63	3969.00	
		20	95.00	1900.00	20	1900.00	
		20	286.00	5720.00	20	5720.00	
		10	114.00	1140.00	10	1140.00	
		10	147.00	1470.00	10	1470.00	
		25	88.00	2200.00	25	2200.00	
		346	15.90	5501.40	346	5501.40	
		248	24.90	6175.20	248	6175.20	
		246	36.30	8929.80	246	8929.80	
		25	9.00	225.00	25	225.00	
		8	130.00	1040.00	8	1040.00	
		25	190.00	4750.00	25	4750.00	
		35	291.00	10185.00	35	10185.00	
		1	1299.00	1299.00	1	1299.00	
		1	1622.00	1622.00	1	1622.00	
		2	1936.00	3872.00	2	3872.00	
		4	418.00	1672.00	4	1672.00	
		6	849.00	5094.00	6	5094.00	

31	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 4' - 28 wat	
32	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.12" Sweep (300mm)	No
33	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Regular model	Nos
34	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Nos
35	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Eac
36	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 35 sqmm	Mtrs
37	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure. 25 sqmm to 75 sqmm	Mtrs
38	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtr
39	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm	No
40	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcr
41	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	No
42	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	No
43	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	N
44	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.100Amps 4x30x6mm Aluminum Strips	M
45	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition. LED light fighting 4' - 28 watts	N
	BESCOM Charges Rs.	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		12	1774.00	21288.00	12	21288.00	
		1	3654.00	3654.00	1	3654.00	
		15	2376.00	35640.00	15	35640.00	
		24	98.00	2352.00	24	2352.00	
		15	139.00	2085.00	15	2085.00	
		35	204.00	7140.00	35	7140.00	
		35	16.20	567.00	35	567.00	
		6	345.00	2070.00	6	2070.00	
		1	362.00	362.00	1	362.00	
		40156	0.33	13251.48	40156	13251.48	
		2	4317.00	8634.00	2	8634.00	
		3	31250.00	93750.00	3	93750.00	
		3	234.00	702.00	3	702.00	
		0.50	2135.00	1067.50	1	1067.50	
		22		39028/-	22	39028/-	KB
		(24)	1774.00	(42576.00)	(24)	(42576.00)	
			13846.62	(14057.00)		(14057.00)	13846.62
				(348758.38)		(348758.38)	
				345000/-		345000/-	